

**DECLARATION AND POWER OF ATTORNEY**  
(Original Application)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**ANTICOLLISION PROTOCOL WITH FAST READ REQUEST  
AND ADDITIONAL SCHEMES FOR READING MULTIPLE  
TRANSPONDERS IN AN RFID SYSTEM**

the specification of which is attached hereto and/or was filed on October 27, 1999 as Application No. 09/428,033.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to herein.

I acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

**FOREIGN PRIORITY APPLICATION(S)**

			Priority Claimed
<u>None</u>			<input type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/month/year filed)	
<u></u>			<input type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/month/year filed)	

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional patent application(s) listed below and have also identified below any United States provisional patent application(s) having a filing date before that of the application on which priority is claimed:

**PROVISIONAL PRIORITY PATENT APPLICATION(S)**

		<b><u>Priority Claimed</u></b>
<u>None</u>		<input type="checkbox"/> Yes <input type="checkbox"/> No
(Application No.)	(Filing Date)	
		<input type="checkbox"/> Yes <input type="checkbox"/> No
(Application No.)	(Filing Date)	

And I hereby appoint the registered attorneys and agents associated with **AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.**, Customer No. 000570, as my attorneys or agents with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

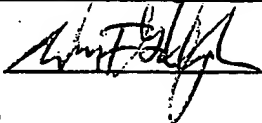
Address all correspondence to **Customer No. 000570, namely, AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.**, One Commerce Square, 2005 Market Street, Suite 2200, Philadelphia, Pennsylvania 19103. Please direct all communications and telephone calls to **Clark A. Jablon, Esquire** at (215) 965-1293.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole

inventor, if any William F. Gallagher, III

Inventor's Signature



Date

12/2/99

Residence Phoenixville, Pennsylvania

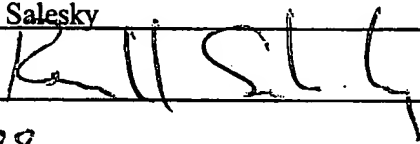
Citizenship United States of America

Post Office Address 16 South Forge Manor Drive, Phoenixville, Pennsylvania 19460

Full name of second joint

inventor, if any Ronald Salesky

Inventor's Signature



Date

12/2/99

Residence Tabernacle, New Jersey

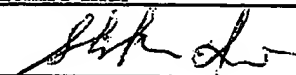
Citizenship United States of America

Post Office Address 46 New Road, Tabernacle, New Jersey 08088

Full name of third joint

inventor, if any Shinichiro Inui

Inventor's Signature



Date

12/02/99

Residence Haddonfield, New Jersey

Citizenship Japan

Post Office Address 44 Treaty Elms Lane, Haddonfield, New Jersey 08033

Full name of fourth joint

inventor, if any Riccardo Benedetti

Inventor's Signature

[Signature]

(signature of inventor Salesky  
signing for unavailable inventor  
Benedetti)

Date

2/18/00

Residence

unknown

Citizenship

unknown

Post Office Address (last known) 3312 Avalon Court, Voorhees, NJ 08043-4642

Full name of fifth joint

inventor, if any Sam Alexander

Inventor's Signature

Date

Residence Phoenix, Arizona

Citizenship United States of America

Post Office Address 2744 E. Silverwood Drive, Phoenix, Arizona 85048

Full name of sixth joint

inventor, if any Lee R. Furey

Inventor's Signature

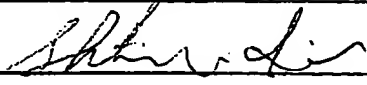
Date

Residence Phoenix, Arizona

Citizenship United States of America

Post Office Address 366 E. Briarwood Terrace, Phoenix, Arizona 85048

Full name of fourth joint  
inventor, if any Riccardo Benedetti

Inventor's Signature  (signature of inventor Inui  
signing for unavailable inventor  
Benedetti)

Date 2/18/00

Residence unknown

Citizenship unknown

Post Office Address (last known) 3312 Avalon Court, Voorhees, NJ 08043-4642

Full name of fifth joint  
inventor, if any Sam Alexander

Inventor's Signature \_\_\_\_\_

Date \_\_\_\_\_

Residence Phoenix, Arizona

Citizenship United States of America

Post Office Address 2744 E. Silverwood Drive, Phoenix, Arizona 85048

Full name of sixth joint  
inventor, if any Lee R. Furey

Inventor's Signature \_\_\_\_\_

Date \_\_\_\_\_

Residence Phoenix, Arizona

Citizenship United States of America

Post Office Address 366 E. Briarwood Terrace, Phoenix, Arizona 85048

Full name of fourth joint

inventor, if any Riccardo Benedetti

Inventor's Signature

(signature of inventor Gallagher  
signing for unavailable inventor  
Benedetti)

Date

1/27/00

Residence

unknown

Citizenship

unknown

Post Office Address (last known) 3312 Avalon Court, Voorhees, NJ 08043-4642

Full name of fifth joint

inventor, if any Sam Alexander

Inventor's Signature

Date

Residence Phoenix, Arizona

Citizenship United States of America

Post Office Address 2744 E. Silverwood Drive, Phoenix, Arizona 85048

Full name of sixth joint

inventor, if any Lee R. Furey

Inventor's Signature

Date

Residence Phoenix, Arizona

Citizenship United States of America

Post Office Address 366 E. Briarwood Terrace, Phoenix, Arizona 85048

Full name of seventh joint  
inventor, if any Youbok Lee

Inventor's Signature \_\_\_\_\_

Date \_\_\_\_\_

Residence Chandler, Arizona

Citizenship South Korea

Post Office Address 757 West Citrus Way, Chandler, Arizona 85248

**DECLARATION****SOLE/JOINT INVENTOR  
ORIGINAL/SUBSTITUTE/CIP**

As a below named inventor, I hereby declare that: my residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first, and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**"ANTICOLLISION PROTOCOL WITH FAST READ REQUEST AND ADDITIONAL SCHEMES FOR READING  
MULTIPLE TRANSPONDERS IN AN RFID SYSTEM"**

as described in the specification ☐ attached or ☒ of Patent Application Serial No. 09/428,033 filed October 27, 1999 and amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above; that I do not know and do not believe the same was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application; that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representative or assigns more than twelve months prior to this application; and that I acknowledge the duty to disclose information of which I am aware which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations § 1.56(a). Such information is material when it is not cumulative to information already of record or being made of record in the application, and

- (1) it establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) it refutes, or is inconsistent with, a position the applicant has taken or may take in:
  - (i) opposing an argument of unpatentability relied on by the Office, or
  - (ii) asserting an argument of patentability.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 of any foreign application(s) for patent or inventor's certificates listed below and have also identified below any foreign application(s) having a filing date before that of the application(s) on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE OF FILING	PRIORITY CLAIMED UNDER 35 USC 119
none			<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

I hereby claim the benefit under Title 35 United States Code § 120 of any United States application(s) listed below and, insofar as any subject matter of any claim of this application is not disclosed in the prior United States Application, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations § 1.56(a) which occurred between the filing date of the prior application and the national PCT international filing date of this application:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR William F. Gallagher, III	INVENTOR'S SIGNATURE	DATE
RESIDENCE Phoenixville, PA	CITIZENSHIP USA	
POST OFFICE ADDRESS 16 South Forge Manor Drive, Phoenixville, PA 19460		
FULL NAME OF SOLE OR FIRST INVENTOR Ronald Salesky	INVENTOR'S SIGNATURE	DATE
RESIDENCE Tabernacle, NJ	CITIZENSHIP USA	
POST OFFICE ADDRESS 46 New Road, Tabernacle, NJ		
FULL NAME OF SOLE OR FIRST INVENTOR Shinichiro Inui	INVENTOR'S SIGNATURE	DATE
RESIDENCE Haddonfield, NJ	CITIZENSHIP Japan	
POST OFFICE ADDRESS 44 Tready Elms Lane, Haddonfield, NJ 08033		



FULL NAME OF SOLE OR FIRST INVENTOR Riccardo Benedetti	INVENTOR'S SIGNATURE	DATE
RESIDENCE (Unknown)		CITIZENSHIP (Unknown)
POST OFFICE ADDRESS (Last Known) 3312 Avalon Court, Voorhees, NJ 08043-4642		
FULL NAME OF SOLE OR FIRST INVENTOR Samuel Alexander	INVENTOR'S SIGNATURE <i>Sam Alexander</i>	DATE 2-17-00
RESIDENCE Phoenix, AZ		CITIZENSHIP USA
POST OFFICE ADDRESS 2744 Silverwood Drive, Phoenix, AZ 85048		
FULL NAME OF SOLE OR FIRST INVENTOR Lee R. Furey	INVENTOR'S SIGNATURE <i>Lee R Furey</i>	DATE 2/17/00
RESIDENCE Phoenix, AZ		CITIZENSHIP USA
POST OFFICE ADDRESS 366 E. Briarwood Terrace, Phoenix, AZ 85048		
FULL NAME OF SOLE OR FIRST INVENTOR Youbok Lee	INVENTOR'S SIGNATURE <i>Youbok Lee</i>	DATE 2-21-00
RESIDENCE Chandler, AZ		CITIZENSHIP South Korea
POST OFFICE ADDRESS 757 West Citrus Way, Chandler, AZ 85248		


(signature of inventor, Lee, signing for unavailable inventor Benedetti) ←

FULL NAME OF SOLE OR FIRST INVENTOR Riccardo Benedetti	INVENTOR'S SIGNATURE <i>Youbok Lee</i>	DATE 2-21-00
RESIDENCE (Unknown)		CITIZENSHIP (Unknown)
POST OFFICE ADDRESS (Last Known) 3312 Avalon Court, Voorhees, NJ 08043-4642		
FULL NAME OF SOLE OR FIRST INVENTOR Samuel Alexander	INVENTOR'S SIGNATURE	DATE
RESIDENCE Phoenix, AZ		CITIZENSHIP USA
POST OFFICE ADDRESS 2744 Silverwood Drive, Phoenix, AZ 85048		
FULL NAME OF SOLE OR FIRST INVENTOR Lee R. Furey	INVENTOR'S SIGNATURE	DATE
RESIDENCE Phoenix, AZ		CITIZENSHIP USA
POST OFFICE ADDRESS 366 E. Briarwood Terrace, Phoenix, AZ 85048		
FULL NAME OF SOLE OR FIRST INVENTOR Youbok Lee	INVENTOR'S SIGNATURE	DATE
RESIDENCE Chandler, AZ		CITIZENSHIP South Korea
POST OFFICE ADDRESS 757 West Citrus Way, Chandler, AZ 85248		

(signature of inventor, Alexander, signing for unavailable inventor Benedetti)

FULL NAME OF SOLE OR FIRST INVENTOR Riccardo Benedetti	INVENTOR'S SIGNATURE <i>Sa Alexander</i>	DATE 2-18-00
RESIDENCE (Unknown)		CITIZENSHIP (Unknown)
POST OFFICE ADDRESS (Last Known) 3312 Avalon Court, Voorhees, NJ 08043-4642		
FULL NAME OF SOLE OR FIRST INVENTOR Samuel Alexander	INVENTOR'S SIGNATURE	DATE
RESIDENCE Phoenix, AZ		CITIZENSHIP USA
POST OFFICE ADDRESS 2744 Silverwood Drive, Phoenix, AZ 85048		
FULL NAME OF SOLE OR FIRST INVENTOR Lee R. Furey	INVENTOR'S SIGNATURE	DATE
RESIDENCE Phoenix, AZ		CITIZENSHIP USA
POST OFFICE ADDRESS 366 E. Briarwood Terrace, Phoenix, AZ 85048		
FULL NAME OF SOLE OR FIRST INVENTOR Youbok Lee	INVENTOR'S SIGNATURE	DATE
RESIDENCE Chandler, AZ		CITIZENSHIP South Korea
POST OFFICE ADDRESS 757 West Citrus Way, Chandler, AZ 85248		

(signature of inventor, Furey, signing for unavailable inventor Benedetti) ←

FULL NAME OF SOLE OR FIRST INVENTOR Riccardo Benedetti	INVENTOR'S SIGNATURE 	DATE 2/18/00
RESIDENCE (Unknown)		CITIZENSHIP (Unknown)
POST OFFICE ADDRESS (Last Known) 3312 Avalon Court, Voorhees, NJ 08043-4642		
FULL NAME OF SOLE OR FIRST INVENTOR Samuel Alexander	INVENTOR'S SIGNATURE	DATE
RESIDENCE Phoenix, AZ		CITIZENSHIP USA
POST OFFICE ADDRESS 2744 Silverwood Drive, Phoenix, AZ 85048		
FULL NAME OF SOLE OR FIRST INVENTOR Lee R. Furey	INVENTOR'S SIGNATURE	DATE
RESIDENCE Phoenix, AZ		CITIZENSHIP USA
POST OFFICE ADDRESS 366 E. Briarwood Terrace, Phoenix, AZ 85048		
FULL NAME OF SOLE OR FIRST INVENTOR Youbok Lee	INVENTOR'S SIGNATURE	DATE
RESIDENCE Chandler, AZ		CITIZENSHIP South Korea
POST OFFICE ADDRESS 757 West Citrus Way, Chandler, AZ 85248		

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231, ON THE DATE INDICATED BELOW.

BY

*Valerie L. Benson*

DATE

*Feb. 28, 2000*

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re:	Patent Application of William F. Gallagher, III, et al.	: Group Art Unit: 2735
Appln. No.:	09/428,033	: Examiner:
Filed:	October 27, 1999	:
For:	ANTICOLLISION PROTOCOL WITH FAST READ REQUEST AND ADDITIONAL SCHEMES FOR READING MULTIPLE TRANSPONDERS IN AN RFID SYSTEM	: Attorney Docket No. 9870-15US

**CERTIFICATE OF MAILING (37 CFR § 1.8(a))**

Paper being filed by Certificate of Mailing: Power of Attorney by Assignee (Microchip Technology, Inc.), attached hereto.

Respectfully submitted,

**WILLIAM F. GALLAGHER, III, ET AL.**

February 28, 2000  
(Date)

By:

*Clark Jablon*

**CLARK A. JABLON**

Registration No. 35,039

**AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.**

One Commerce Square

2005 Market Street - Suite 2200

Philadelphia, PA 19103

Telephone: (215) 965-1200

**Direct Dial: (215) 965-1293**

Facsimile: (215) 965-1210

CAJ:vlb  
Enclosure

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: William F. Gallagher, III, et al.

Filed: October 27, 1999

Serial No.: 09/428,033

Atty File: 9870-1545

For: ANTICOLLISION PROTOCOL WITH FAST  
READ REQUEST AND ADDITIONAL  
SCHEMES FOR READING MULTIPLE  
TRANSPONDERS IN AN RFID SYSTEM

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POWER OF ATTORNEY BY ASSIGNEE

Under the provisions of 37 C.F.R. § 3.71, the undersigned assignee of record of the entire interest in the above-identified patent/patent application by virtue of an assignment recorded (check as applicable):

- ☒ Filed under separate cover  
☒ Concurrently Herewith (copy, as filed, enclosed. Do not  
☐ Date Recorded \_\_\_\_\_ record the enclosed copy)  
☐ Reel \_\_\_\_\_ Frame \_\_\_\_\_

elects to conduct the prosecution of the application/maintenance of the patent to the exclusion of the inventor(s). The undersigned hereby declares that he has reviewed the above-referenced assignment and hereby declares that, to the best of his knowledge, title is in the Assignee, and further declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true. The assignee hereby revokes any previous powers of attorney and appoints the following to prosecute this application/maintain this patent and transact all business in the Patent and Trademark Office connected therewith:

Please direct all communications to: Akin, Gump, Strauss, Hauer & Feld, L.L.P.

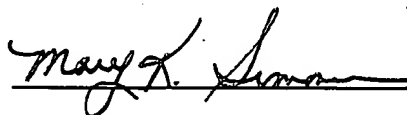
One Commerce Square  
2005 Market Street, Suite 2200  
Philadelphia, PA 19013  
Customer No. 000570  
Clark A. Jablon, Esq. (215) 965-1293

To the attention of:

ASSIGNEE  
MICROCHIP TECHNOLOGY INC.

Date: 2/21/2000

By:



Title: Vice President & General Counsel

COPY

FORM PTO-1595 (Modified)  
1-31-92U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeRECORDATION FORM COVER SHEET  
PATENTS ONLYAttorney Docket  
No. 9870-15US

To the Assistant Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

SAMUEL ALEXANDER  
LEE R. FUREY  
YIOBOK LEE

## 2. Name and address of receiving party(ies):

Microchip Technology Incorporated  
2355 West Chandler Boulevard  
Chandler, Arizona 85224-6199

## 3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other:	

Execution Date: February 17, 2000 (SA &amp; LRF)

February 21, 2000 (YB)

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s): 09/428,033

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence document should be mailed:

CLARK A. JABLON  
AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.  
One Commerce Square - 2005 Market Street - Suite 2200  
Philadelphia, PA 19103  
Telephone: (215) 965-1200  
Facsimile: (215) 965-1210  
Direct Dial: (215) 965-1293  
E-Mail: cjablon@akingump.com

## 6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) Cal. 1 x \$40.00 = \$ 40.00
☐ Enclosed  
☒ Authorized to be charged to deposit account
8. Deposit account number: 50-1017 (Billing No. 209870.0015)

DO NOT USE THIS SPACE

## 9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Clark A. Jablon

Name of Person Signing

Signature

Date

February 28, 2000

Total number of pages including cover sheet, attachments and document: [ 3 ]

OMB No. 0651-0011 (exp. 4/94)

COPY

ORIGINAL ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the below signed inventors of record, hereby assign to

Microchip Technology Incorporated

having a place of business at:

2355 West Chandler Blvd.  
Chandler, AZ 85224-6199

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by me this day, entitled:

"ANTICOLLISION PROTOCOL WITH FAST READ REQUEST AND ADDITIONAL SCHEMES FOR READING MULTIPLE TRANSPONDERS IN AN RFID SYSTEM"

this assignment including said application, any and all United States and foreign patents, utility models, design registrations, inventor's certificates and other similar rights granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name, or in its own name, for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for myself and my heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS THEREOF, I hereby set my hand, date of signature and place of signature as indicated below.

Full Name of First Joint Inventor: Samuel Alexander

Residence: 2744 East Silverwood Drive, Phoenix AZ, 85048

Citizenship: : USA

Post Office Address: 2744 East Silverwood Drive, Phoenix, AZ 85048

<u>Samuel Alexander</u>	<u>2-17-00</u>	<u>Chandler, USA</u>
Signature of Sole or First Inventor	Date of Signature	Place of Signature: (City, Country)

Full Name of Second Joint Inventor: Lee R. Furey

Residence: 366 East Briarwood Terrace, Phoenix, AZ 85048

Citizenship: USA

Post Office Address: 366 East Briarwood Terrace, Phoenix, AZ 85048

<u>[Signature]</u>	<u>2/17/00</u>	<u>CHANDLER AZ. U.S.A.</u>
Signature of Second Joint Inventor	Date of Signature	Place of Signature: (City, Country)



CO COPY

Full Name of Third Joint Inventor: Youbok Lee

Residence: 757 West Citrus Way

Citizenship: South Korea

Post Office Address: 757 West Citrus Way

Youbok Lee  
Signature of Third Joint Inventor

2-21-00  
Date of Signature

Chandler, USA  
Place of Signature:  
(City, Country)